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ACCESSION NUMBER: **1993-195323 [24]** WPINDEX  
 DOC. NO. NON-CPI: N1993-150144  
 DOC. NO. CPI: C1993-086682  
 TITLE: Electric arc welding device with consumable electrodes - has reverse unit to control direction of movement of welding wire, and uses comparators to indicate zero, working and standby voltages.  
 DERWENT CLASS: M23 P55 X24  
 INVENTOR(S): VOLOVIKOV, E V  
 PATENT ASSIGNEE(S): (PROG-R) PROGRESS WKS  
 COUNTRY COUNT: 1  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
<u>SU 1743752</u>	A1	19920630	(199324)*		4	B23K009-10

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
<u>SU 1743752</u>	A1	<u>SU 1990-4869851</u>	19901001

PRIORITY APPLN. INFO: SU 1990-4869851 19901001  
 INT. PATENT CLASSIF.: MAIN: B23K009-10

**BASIC ABSTRACT:**  
**SU 1743752 A UPAB: 19931116**  
 During closing of a welding switch (17), a gas envelope supply valve is opened by a control unit (16) and the gas passes to a torch (2). After a determined period, a command is passed to a power source (1) and standby voltage produces a '1' from a comparator (7), connecting an ignition unit (13) to form the required ignition mode. An electrode wire feed mechanism (7) is connected through a parameter setting unit (14) and a comparator (6) forms a '1' during contact of the wire with the article.

A reverse unit (11) is then connected, to reverse the direction of movement of the wire. After striking of an arc, comparator (6) forms an '0', disconnecting unit (11) and passage of the wire to the article and a second comparator (8) is triggered by the working voltage, to connect a mode unit (12). Comparator (8) forms a '0' and unit (13) is disconnected. The welding current is then increased smoothly through a unit (15) until welding is finished.

USE/ADVANTAGE - For automatic electric arc welding with consumable electrodes. Better weld quality is obtd. Bul.24/30.6.92

Dwg. 1/1

FILE SEGMENT: CPI EPI GMPI  
 FIELD AVAILABILITY: AB; GI  
 MANUAL CODES: CPI: M23-D01B3  
 EPI: X24-B02X

Intellectual  
Property Research,  
Management &  
Commercialisation  
Services

Address all  
Correspondence to  
PO Box 323  
Collins St West 8007  
Melbourne  
AUSTRALIA

Melbourne Office  
Levels 21 & 22  
367 Collins Street  
Melbourne 3000  
Australia

Telephone  
(03) 9622 2100  
International Telephone  
+613 9622 2100

Facsimile  
(03) 9614 1867  
(03) 9614 1483  
International Facsimile  
+613 9614 1867  
+613 9614 1483

Email  
mail@iporganisers.com.au  
Internet  
www.iporganisers.com.au  
www.ipmenu.com

Sydney  
54 Miller Street  
North Sydney 2060  
AUSTRALIA

Telephone  
(02) 9929 5400  
Facsimile  
(02) 9929 4511

Adelaide  
81 Flinders Street  
Adelaide 5000  
AUSTRALIA

Telephone  
(08) 8232 5199

Facsimile  
(08) 8232 5477

Associated with  
Phillips Ormonde &  
Fitzpatrick and Phillips  
Ormonde & Fitzpatrick  
Lawyers

IP Organisers Pty Ltd  
ACN 105 176 814